

U.S. Census Bureau  
Antifriction Bearings - 2008  
MA332Q(08)  
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Table 1. Value of Shipments of Antifriction Ball and Roller Bearings, Components, and Parts: 2008 to 2004  
[Value in millions of dollars]

Product class code	Product description	Year		Value
3329911	Ball bearings, complete, unmounted	2008	c/	1,963.4
		2007	a/r/	2,058.9
		2006		1,932.8
		2005		1,940.9
		2004		1,822.7
3329913	Tapered roller bearings, including cups and cones, unmounted	2008		(D)
		2007		(D)
		2006		1,958.3
		2005		2,010.5
		2004		1,727.9
3329915	Roller bearings (except tapered), unmounted	2008	a/	1,334.3
		2007	r/	1,324.2
		2006		1,139.0
		2005		1,132.8
		2004		1,053.3
3329917	Mounted bearings (except plain)	2008	b/	484.4
		2007	b/r/	500.3
		2006		554.5
		2005		578.0
		2004		551.5
3329919	Parts and components for ball and roller bearings (except cups and cones), including balls and rollers, sold separately	2008	a/	831.8
		2007	r/	715.5
		2006		652.4
		2005		668.0
		2004		622.5

Table 2. Domestic Quantity and Value of Shipments of Antifriction Ball and Roller Bearings, Components, and Parts: 2008 and 2007  
[Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	Year	No. of cos.	Quantity	Value
3329911	Ball bearings, complete, unmounted	2008	(X) c/	233,989	1,963,407
		2007	a/r/	270,518	2,058,864
3329911101	Ball bearings, complete, annular, ground or precision, single-row conrad, miniature regular (ABEC 1 and 3)	2008	4	(D)	(D)
		2007		(S)	(S)
3329911102	Ball bearings, complete, annular, ground or precision, single-row conrad, miniature precision (ABEC 5 and up)	2008	5 b/	4,298	24,832
		2007	b/	3,912 a/r/	23,035
3329911103	Ball bearings, complete, annular, ground or precision, single-row conrad, other regular, 9 mm outside diameter through 30 mm outside diameter	2008	6	(D)	(D)
		2007		(D)	(D)
3329911104	Ball bearings, complete, annular, ground or precision, single-row conrad, other regular, over 30 mm outside diameter through 52 mm outside diameter	2008	10	53,742	99,908
		2007		62,800	107,663
3329911105	Ball bearings, complete, annular, ground or precision, single-row conrad, other regular, over 52 mm outside diameter through 100 mm outside diameter	2008	10	18,426	127,543
		2007		19,005 r/	130,320
3329911107	Ball bearings, complete, annular, ground or precision, single-row conrad, other regular, over 100 mm outside diameter	2008	10	2,220	142,686
		2007	r/	2,136 r/	148,745
3329911109	Ball bearings, complete, annular, ground or precision, single-row conrad, other precision, 9 mm outside diameter through 30 mm outside diameter	2008	3	(D)	(D)
		2007		(D)	(D)
3329911111	Ball bearings, complete, annular, ground or precision, single-row conrad, other precision, over 30 mm outside diameter through 52 mm outside diameter	2008	5	501	44,023
		2007		523	49,091
3329911112	Ball bearings, complete, annular, ground or precision, single-row conrad, other precision, over 52 mm outside diameter through 100 mm outside diameter	2008	5	225	39,587
		2007		223	35,682
3329911113	Ball bearings, complete, annular, ground or precision, single-row conrad, other precision, over 100 mm outside diameter	2008	5	115	63,549
		2007		102 r/	55,863
3329911114	Ball bearings, complete, annular, ground or precision, single-row maximum capacity type	2008	5	980	26,298
		2007	r/	1,035 r/	23,906
3329911118	Ball bearings, complete, annular, integral shaft and integral spindle	2008	4	(D)	(D)
		2007		(D)	(D)
3329911120	Ball bearings, complete, annular, ground or precision, double row	2008	10	41,233	521,818
		2007		45,531	619,121
3329911119	Ball bearings, complete, annular, ground or precision, angular contact, regular	2008	7	783	148,630
		2007	r/	763 r/	125,004
3329911123	Ball bearings, complete, annular, ground or precision, angular contact, precision	2008	5	1,900	53,285
		2007		2,116 r/	90,277
3329911124	Ball bearings, complete, annular, other ground or precision bearings (ABEC 1 and up)	2008	4	(D)	(D)
		2007		(D)	(D)
3329911127	Ball bearings, complete, annular, other ground or precision bearings of less than ABEC 1 precision	2008	2	(D)	(D)
		2007		(D)	(D)
3329911129	Ball bearings, complete, annular, unground (less than ABEC 1)	2008	13	53,905	75,216
		2007	b/r/	63,232 a/r/	79,542
3329911133	Thrust ball bearings, complete, ground	2008	9	(D)	(D)
		2007		(D)	(D)

3329911135	Thrust ball bearings, complete, unground	2008	4		5,306		9,634
		2007			6,896		12,427
3329911155	Other ball bearings	2008	14	a/	21,688		(S)
		2007		r/	23,480	a/r/	212,953
3329913	Tapered roller bearings, including cups and cones, unmounted	2008	(X)		(D)		(D)
		2007			(D)		(D)
3329913132	Tapered roller bearings, cup and cone assemblies shipped as a set	2008	10		(D)		(D)
		2007			(D)		(D)
3329913133	Tapered roller bearings, cups shipped separately	2008	7		(D)		(D)
		2007			(D)		(D)
3329913134	Tapered roller bearings, cone assemblies shipped separately	2008	6		(D)		(D)
		2007			(D)		(D)
3329915	Roller bearings (except tapered), unmounted	2008	(X)		991,144	a/	1,334,291
		2007		r/	999,438	r/	1,324,206
3329915111	Cylindrical roller bearings, regular (ABEC 1 and 3)	2008	14		(D)		(D)
		2007			(D)		(D)
3329915112	Cylindrical roller bearings, precision (ABEC 5 and up)	2008	6		229		113,410
		2007		c/r/	202		97,116
3329915124	Spherical roller bearings, including hourglass and barrel, single-row	2008	5		(D)		(D)
		2007			(D)		(D)
3329915125	Spherical roller bearings, including hourglass and barrel, double-row	2008	6		(D)		(D)
		2007			(D)		(D)
3329915141	Needle roller bearings	2008	6		(D)		(D)
		2007			(D)		(D)
3329915193	Other roller bearings, n.e.c.	2008	10		(D)		(D)
		2007			(D)		(D)
3329917	Mounted bearings (except plain)	2008	(X)	b/	6,889	b/	484,401
		2007		a/r/	7,796	b/r/	500,295
3329917117	Ball bearings, unit and/or split-mounted	2008	9	a/	5,921	a/	248,166
		2007		a/r/	6,790	a/r/	258,680
3329917153	Roller, unit mounted	2008	6	c/	747	c/	171,639
		2007		c/	768	c/	172,183
3329917155	Roller, split-mounted	2008	4		(S)		(S)
		2007			(S)		(S)
3329919	Parts and components for ball and roller bearings (except cups and cones), including balls and rollers sold separately	2008	(X)		(X)	a/	831,831
		2007			(X)	r/	715,538
3329919111	Balls (millions of units) 1/	2008	16		5,778	b/	249,886
		2007			4,480	r/	260,328
3329919121	Other antifriction ball bearing components and parts, including unassembled ball bearings, cages, races, seals, shields, etc. (except balls)	2008	16		(X)		125,304
		2007			(X)		86,914
3329919131	Rollers (millions of units) 1/	2008	10		11,296		167,166
		2007		r/	12,629	r/	145,876
3329919135	Roller bearing parts and components for tapered roller bearings (except cup cone assemblies)	2008	4		(X)	a/	169,281
		2007			(X)		(D)
3329919136	Roller bearing parts and components for cylindrical roller bearings	2008	2		(X)		(D)
		2007			(X)		(D)
3329919137	Roller bearing parts and component for spherical roller bearings	2008	1		(X)		(D)
		2007			(X)		(D)
3329919149	Roller bearing parts and component for other roller bearings	2008	6		(X)		(D)

		2007		(X)	(D)
3329919159	Housings and parts and components for housings, including housing closures, collars, spacers, sleeves, adapters, and other miscellaneous items	2008	7	(X)	66,482
		2007		(X)	60,156

Footnotes:

1/ Production for all purposes of balls and rollers for 2008 and 2007 are contained in Table 2a.

Table 2a. Quantity Produced for All Purposes: 2008 and 2007  
[Quantity in millions of units]

Product code	Product description	Year	Quantity produced for all purposes
3329919	Parts and components for ball and roller bearings (except cups and cones), including balls and rollers sold separately	2008	(X)
		2007	(X)
3329919111	Balls (millions of units)	2008	5,778
		2007	4,480
3329919131	Rollers (millions of units)	2008	11,296
		2007 r/	12,629

Table 3. Shipments, Exports, and Imports, of Antifriction Ball and Roller Bearings, Components, and Parts: 2008 and 2007  
[Quantity in thousands of units. Value and duty in thousands of dollars]

Product code	Product description	Year	Manufacturers' shipments		Exports of domestic merchandise 1/		Imports for consumption 2/	
			Quantity	Value f.o.b. plant	Quantity	Value at port	Quantity	C.i.f. and 3/ calculated duty
332991100T	Ball bearings, complete, annular, ground or precision, single-row conrad, miniature regular (ABEC 1 and 3) and precision (ABEC 5 and up)	2008	(D)	(D)	435	5,281	24,031	16,658
		2007	c/ 5,444	c/ 30,201	389	4,739	23,030	14,017
332991200T	Ball bearings, complete, annular, ground or precision, single-row conrad, other regular and precision 9 mm outside diameter through 30 mm outside diameter	2008	10,641	80,854	319	23,862	170,751	77,853
		2007	13,384	76,732	268	18,246	203,807	83,571
332991300T	Ball bearings, complete, annular, ground or precision, single-row conrad, other regular and precision over 30 mm outside diameter through 52 mm outside diameter	2008	54,243	143,931	408	24,902	200,727	146,829
		2007	63,322	156,754	679	31,329	199,061	141,499
332991400T	Ball bearings, complete, annular, ground or precision, single-row conrad, other regular and precision over 52 mm outside diameter through 100 mm outside diameter	2008	18,651	167,130	622	29,945	47,925	144,605
		2007	19,228	166,002	315	18,132	44,613	143,179
332991500T	Ball bearings, complete, annular, ground or precision, single-row conrad, other regular and precision over 100 mm outside diameter	2008	2,336	206,235	101	31,069	6,289	79,412
		2007	r/ 2,238	r/ 204,608	95	26,006	6,420	68,501
3329911114	Ball bearings, complete, annular, ground or precision, single-row maximum capacity type	2008	980	26,298	136	8,651	9,883	22,942
		2007	r/ 1,035	r/ 23,906	164	8,190	10,982	18,235
3329911118	Ball bearings, complete, annular, integral shaft and integral spindle	2008	(D)	(D)	1,559	51,570	16,976	39,006
		2007	(D)	(D)	1,239	43,865	19,432	42,815
3329911120	Ball bearings, complete, annular, ground or precision, double-row	2008	41,233	521,818	100	10,398	6,580	21,138
		2007	45,531	619,121	88	8,003	2,614	17,876
332991600T	Ball bearings, complete, annular, ground or precision, angular contact, regular and precision	2008	2,683	201,915	8,319	106,184	14,118	156,399
		2007	2,879	215,281	24,731	120,365	13,464	146,826
332991700T	All other ground or precision (ABEC 1 and up) and ground bearings of less than ABEC 1 precision; annular ball bearings including self-aligning, unground (less than ABEC 1); and unground thrust ball bearings	2008	60,507	99,856	4,373	20,935	13,829	12,901
		2007	b/ 74,304	b/ 118,446	3,844	15,606	16,371	21,665
3329911133	Ground thrust ball bearings	2008	(D)	(D)	306	31,548	2,364	23,329
		2007	(D)	(D)	299	30,265	5,538	19,315
3329911155	Other ball bearings	2008	a/ 21,688	(S)	4,109	184,500	9,948	102,352
		2007	r/ 23,480	a/r/ 212,953	3,270	199,335	13,770	97,003
3329913132	Tapered roller bearings, including cups and cones, unmounted, cup and cone assemblies shipped as a set	2008	(D)	(D)	5,665	261,495	27,092	185,780
		2007	(D)	(D)	5,590	206,107	33,130	154,878
3329913133	Tapered roller bearings, including cups and cones, unmounted, cups shipped separately	2008	(D)	(D)	4,162	35,077	76,571	139,479
		2007	(D)	(D)	3,780	32,248	64,290	110,129
3329913134	Tapered roller bearings, including cups and cones, unmounted, cones assemblies shipped separately	2008	(D)	(D)	23,594	263,105	62,002	174,575
		2007	(D)	(D)	17,498	196,615	46,951	121,525
332991800T	Cylindrical roller bearings, regular (ABEC 1 and 3) and precision (ABEC 5 and up)	2008	(D)	(D)	2,498	132,111	35,806	278,402
		2007	(D)	(D)	1,593	100,948	31,783	228,598
3329915124	Spherical roller bearings, including hourglass and barrel, single-row	2008	(D)	(D)	122	19,236	336	13,126
		2007	(D)	(D)	125	18,837	538	11,490
3329915125	Spherical roller bearings, including hourglass and barrel, double-row	2008	(D)	(D)	194	49,170	1,167	97,813
		2007	(D)	(D)	200	47,743	1,221	95,923
3329915141	Spherical roller bearings, including hourglass and barrel, needle rolling bearings	2008	(D)	(D)	8,604	79,915	114,464	78,287
		2007	(D)	(D)	8,088	87,967	104,832	72,144
3329915193	Other roller bearings, n.e.c.	2008	(D)	(D)	1,369	111,903	3,819	25,817
		2007	(D)	(D)	1,077	106,887	1,651	5,977
3329917117	Mounted ball bearings, unit and/or split mounted	2008	a/ 5,921	a/ 248,166	587	36,902	20,330	60,903
		2007	a/r/ 6,790	a/r/ 258,680	442	30,358	21,410	54,743
332991900T	Mounted roller bearings, unit and split mounted	2008	c/ 969	c/ 236,235	103	21,329	581	6,384
		2007	c/ 1,006	c/ 241,615	162	36,613	568	5,244
3329919111	Balls (millions of units)	2008	5,778	b/ 249,886	(X)	36,680	6,067	27,976
		2007	4,480	r/ 260,328	(X)	34,068	5,870	22,348
3329919121	Other antifriction ball bearing components and parts, including unassembled ball bearings, cages, races, seals, shields, etc. (except balls)	2008	(X)	125,304	(X)	55,618	209,441	190,755
		2007	(X)	86,914	(X)	49,977	244,082	133,968
3329919131	Rollers (millions of units)	2008	11,296	167,166	(X)	69,677	5,283	50,510
		2007	r/ 12,629	r/ 145,876	(X)	63,964	4,170	39,892
3329919135	Roller bearing parts and components (except rollers) for tapered roller bearings (except cup and cone assemblies)	2008	(X)	a/ 169,281	(X)	73,399	(X)	89,739
		2007	(X)	(D)	(X)	51,624	(X)	68,262
3329919136	Roller bearing parts and components (except rollers) for cylindrical roller bearings	2008	(X)	(D)	(X)	5,980	(X)	33,459
		2007	(X)	(D)	(X)	6,938	(X)	28,114
3329919137	Roller bearing parts and components (except rollers) for spherical roller bearings	2008	(X)	(D)	(X)	5,624	(X)	26,936
		2007	(X)	(D)	(X)	3,217	(X)	14,097
3329919149	Roller bearing parts and components (except rollers) for other roller bearings	2008	(X)	(D)	(X)	37,947	(X)	24,688
		2007	(X)	(D)	(X)	41,100	(X)	20,280

3329919159	Housings and parts and components for housing, including housing closures, collars, spacers, sleeves, adapters, and other miscellaneous items	2008	(X)	66,482	(X)	47,722	(X)	113,465
		2007	(X)	60,156	(X)	53,951	(X)	54,690

Footnotes:

1/ Source: Census Bureau report EM 545, U.S. Exports.

2/ Source: Census Bureau report IM 145, U.S. Imports for Consumption.

3/ C.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus import duties.



Table 4. Comparison of North American Industry Classification System Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2008

Combined code	Product code	Product description	Export code 1/	Import code 2/
332991100T	3329911101 3329911102	Ball bearings, complete, annular, ground or precision, single-row conrad, miniature regular (ABEC 1 and 3) and precision (ABEC 5 and up)	8482.10.5036	8482.10.5036
332991200T	3329911103 3329911109	Ball bearings, complete, annular, ground or precision, single-row conrad, other regular and precision 9 mm outside diameter through 30 mm outside diameter	8482.10.5044	8482.10.5044
332991300T	3329911104 3329911111	Ball bearings, complete, annular, ground or precision, single-row conrad, other regular and precision over 30 mm outside diameter through 52 mm outside diameter	8482.10.5048	8482.10.5048
332991400T	3329911105 3329911112	Ball bearings, complete, annular, ground or precision, single-row conrad, other regular and precision over 52 mm outside diameter through 100 mm outside diameter	8482.10.5052	8482.10.5052
332991500T	3329911107 3329911113	Ball bearings, complete, annular, ground or precision, single-row conrad, other regular and precision over 100 mm outside diameter	8482.10.5056	8482.10.5056
3329911114	3329911114	Ball bearings, complete, annular, ground or precision, single-row maximum capacity type	8482.10.5032	8482.10.5032
3329911118	3329911118	Ball bearings, complete, annular, integral shaft and integral spindle	8482.10.1000	8482.10.1040 8482.10.1080
3329911120	3329911120	Ball bearings, complete, annular, ground or precision, double-row	8482.10.5060	8482.10.5060
332991600T	3329911119 3329911123	Ball bearings, complete, annular, ground or precision, angular contact, regular and precision	8482.10.5016 8482.10.5024 8482.10.5028	8482.10.5016 8482.10.5024 8482.10.5028
332991700T	3329911124 3329911127 3329911129 3329911135	All other ground or precision (ABEC 1 and up) and ground bearings of less than ABEC 1 precision; annular ball bearings including self-aligning, unground (less than ABEC 1); and unground thrust ball bearings	8482.10.5004 8482.10.5064	8482.10.5004 8482.10.5064
3329911133	3329911133	Ground thrust ball bearings	8482.10.5008	8482.10.5008
3329911155	3329911155	Other ball bearings	8482.10.5012 8482.10.5068	8482.10.5012 8482.10.5068
3329913132	3329913132	Tapered roller bearings, including cups and cones, unmounted, cup and cone assemblies shipped as a set	8482.20.0020 8482.20.0030 8482.20.0040 8482.20.0060	8482.20.0020 8482.20.0030 8482.20.0040 8482.20.0060
3329913133	3329913133	Tapered roller bearings, including cups and cones, unmounted, cups shipped separately	8482.99.3010	8482.99.1540
3329913134	3329913134	Tapered roller bearings, including cups and cones, unmounted, cone assemblies shipped separately	8482.20.0070 8482.20.0080	8482.20.0070 8482.20.0080
332991800T	3329915111 3329915112	Cylindrical roller bearings, regular (ABEC 1 and 3) and precision (ABEC 5 and up)	8482.50.0000	8482.50.0000
3329915124	3329915124	Spherical roller bearings, including hourglass and barrel, single-row	8482.30.0040	8482.30.0040
3329915125	3329915125	Spherical roller bearings, including hourglass and barrel, double-row	8482.30.0080	8482.30.0080
3329915141	3329915141	Spherical roller bearings, including hourglass and barrel, needle rolling bearings	8482.40.0000	8482.40.0000
3329915193	3329915193	Other roller bearings, n.e.c.	8482.80.0020	8482.80.0020

			8482.80.0040	8482.80.0040
			8482.80.0060	8482.80.0060
3329917117	3329917117	Mounted ball bearings, unit and/or split mounted	8483.20.0010	8483.20.4040 8483.20.8040
332991900T	3329917153 3329917155	Mounted roller bearings, unit and split mounted	8483.20.0050	8483.20.4080 8483.20.8080
3329919111	3329919111	Balls (millions of units)	8482.91.0010 8482.91.0020	8482.91.0010 8482.91.0020
3329919121	3329919121	Other antifriction ball bearing components and parts, including unassembled ball bearings, cages, races, seals, shields, etc. (except balls)	8482.99.1010 8482.99.1050	8482.99.0500 8482.99.3500
3329919131	3329919131	Rollers (millions of units)	8482.91.0040 8482.91.0050 8482.91.0070 8482.91.0080 8482.91.0090	8482.91.0040 8482.91.0050 8482.91.0070 8482.91.0080 8482.91.0090
3329919135	3329919135	Roller bearing parts and components (except rollers) for tapered roller bearings (except cup and cone assemblies)	8482.99.3050	8482.99.1580 8482.99.4500
3329919136	3329919136	Roller bearing parts and components (except rollers) for cylindrical roller bearings	8482.99.7060	8482.99.2560 8482.99.6560
3329919137	3329919137	Roller bearing parts and components (except rollers) for spherical roller bearings	8482.99.5000	8482.99.2520 8482.99.6510
3329919149	3329919149	Roller bearing parts and components (except rollers) for other roller bearings	8482.99.7030 8482.99.7090	8482.99.2540 8482.99.6530
3329919159	3329919159	Housings and parts and components for housing, including housing closures, collars, spacers, sleeves, adapters, and other miscellaneous items	8483.30.5020	8483.30.4040 8483.30.8020 8483.90.2000 8483.90.7000

Footnotes:

1/ Source: 2008 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/ Source: Harmonized Tariff Schedule of the United States, Annotated (2008).

Symbols:

- (D) - Withheld to avoid disclosing data of individual companies.
- (X) - Not applicable.
- (NA) - Not available.
- r/ - Revised by 5 percent or more from previously published data.
- (n.e.c.) - Not elsewhere classified.
- (n.s.k.) - Not specified by kind.
- (nehp) - Net engine horsepower
- (btuh) - British thermal units per hour
- (pt.) Part.
- Represents zero.

Estimation symbols - Percent of estimation for each item is indicated as follows:

- a/ - 10 to 19 percent of this item has been estimated.
- b/ - 20 to 29 percent of this item has been estimated.
- c/ - 30 to 49 percent of this item has been estimated.
- (S) - Withheld because estimates did not meet publication standards

## HISTORICAL NOTE

The Census Bureau has collected data on antifriction bearings since 1972.

Historical Current Industrial Reports data may be obtained from a Federal Depository Library. To locate a Federal Depository Library in your area, please visit <http://www.gpoaccess.gov/libraries.html>.